

# **Department of Energy**

## **CORPORATE NETWORK (DOEnet)**

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**Office of the Associate CIO for Operations**

**Site Coordinating Committee Video Teleconference**  
**October 11, 2000**

# Agenda



- ⌘ Introductions
- ⌘ Implementation Status
- ⌘ Network Performance
- ⌘ Network Operations
- ⌘ Network Security
- ⌘ Open Discussion/Next Meeting

# DOEnet HQ Team



Federal Project Manager

Rich Otis

TELIS Project Manager

John Bullock

Project Coordinator

Toni Love

Network Engineers

Kellep Charles (KC)

Hieu Dang

Warren Jordan

Greg Magann

Bobby Rizvi

# Network Outages



## ⌘ August Outages

- ☒ 4 Circuit or PVC Outages

## ⌘ September Outages

- ☒ 6 Circuit or PVC Outages

- ☒ 24.88 Hours of Site Outages

## ⌘ UBR/Back-up PVC Test Plan

# Implementation Status

## Initial Connectivity



- ⌘ Carlsbad Area Office - Qwest has determined funds are not available to complete buildout. Order remains in place with Sprint. Exploring alternative connectivity options.

## Implementation Status - DS-3 Circuits Upgrades



- ⌘ Idaho Operations Office - Delivery of DS-3 Circuit delayed until November 2000.
- ⌘ NREL/Golden - Construction delays. No FOC date on delivery of DS-3 circuit.
- ⌘ Ohio Field Office - Construction work on hold pending delivery of fiber. No FOC date on delivery of the DS-3 circuit.
- ⌘ Richland Operations Office - Cutover completed.

# Help Desk Activities



## August 2000 – 23 Tickets

- ☒ 4 Circuit Outages/ 3 Child
- ☒ 2 Performance Anomalities
- ☒ 2 HQ Configuration - Router
- ☒ 4 Site Configuration
- ☒ 4 Power
- ☒ 1 Network Hardware
- ☒ 1 Site Hardware
- ☒ 2 Other / NTF

# Help Desk Activities



## September 2000 – 29 Tickets

- ☒ 6 Circuit Outages/ 8 Child
- ☒ 1 HQ Configuration - Router
- ☒ 4 Site Configuration
- ☒ 1 Site Hardware
- ☒ 2 Education/Information
- ☒ 5 Other / NTF
- ☒ 2 Requests



# Network Security



- ⌘ Phase II - Network Implementation Plan
- ⌘ Corrective Action Plan in response to the Unclassified Cyber Security Review of the Department of Energy was completed July 31, 2000
- ⌘ DODnet Security Enhancements scheduled to be completed by 12/15/00

# Network Security Pilot - 10 Sites



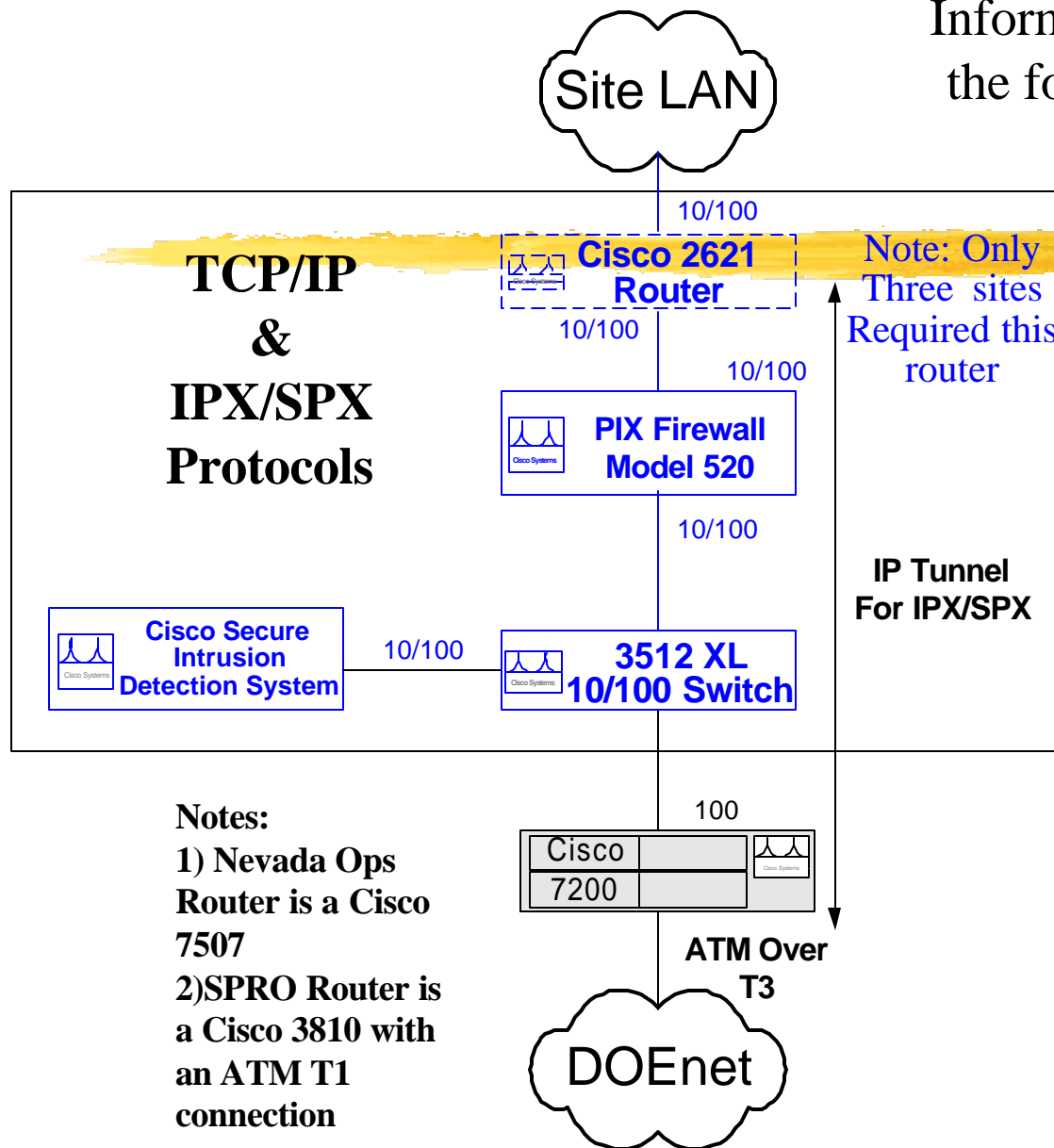
- ⌘ Provide network perimeter protection
  - ☑ Stateful Inspection Firewalls
- ⌘ Implement network intrusion detection capability at each site
- ⌘ Increased use of features in existing equipment
  - ☑ separation of traffic by IP tunneling of PVC configuration
  - ☑ network access list

# Network Security Implementation Schedule



- ⌘ Communicate Site Requirements  
(Rack Space and Power) - 10/02/00
- ⌘ Complete Test Plan and Deployment Schedule - 10/20/00
- ⌘ Complete Testing - 11/10/00
- ⌘ Site Deployment - 11/15-12/15/00

Information Protection Zone for  
the following 10 DOEnet sites



**Albuquerque**  
**Chicago Ops**  
**Idaho Ops**  
**Oak Ridge Ops**  
**Oakland Ops**  
**Richland/Hanford**  
**WAPA Golden**

**The following Sites**  
**require the**  
**additional router to**  
**support IPX:**  
**NREL CO**  
**Nevada Ops**  
**SPRO**

**Notes:**

- 1) Nevada Ops Router is a Cisco 7507
- 2) SPRO Router is a Cisco 3810 with an ATM T1 connection

# General Information



## ⌘ Request for Connectivity

### ☑ Bonneville Power Administration

- ☑ Compliance with connection requirements being verified

- ☑ Scheduled to be connected 10/23/00

- ☑ Connectivity will be established with BPA/HQ

### ☑ Yucca Mountain

- ☑ Scheduled to be connected 10/21/00

# Next Meeting(s)



SCC Video Teleconference -  
November 8, 2000